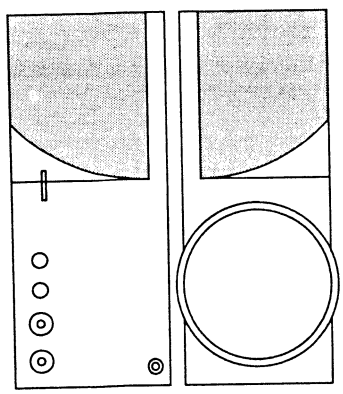
aiwa

aiwa SERVICE

SC-A78



ACTIVE SPEAKER SYSTEM

SERVICE MANUAL

• TYPE: HR

SPECIFICATIONS

Power supply	AC 110 – 120 V/220 – 240 V switchable, 50/60 Hz
Power consumption	40 W
Speakers	77 mm full range antimagnetic type satellite speakers/4 ohms (2) 100 mm antimagnetic type subwoofer (1)
Power output	**<Satellite speakers>** 5 W + 5 W (4 ohms, T.H.D. 10% at 1 kHz) 4 W + 4 W (4 ohms, T.H.D. 1% at 1 kHz) **<Subwoofer>** 10 W (6 ohms, T.H.D. 10% at 100 Hz) 8 W (6 ohms, T.H.D. 1% at 100 Hz)
Frequency response	**<Satellite speakers>** 150 Hz – 20,000 Hz **<Subwoofer>** 40 Hz – 200 Hz
Input terminals/sensitivity	LINE IN: 300 mV/10 kohms, stereo pin jack (1) PHONES: 300 mV/1 kohm, stereo mini-plug (1)
Output terminals	Headphones out: 10 mW/16 ohms
Dimensions (w/h/d)	124 x 279 x 219 mm (5 x 11 x $8^5/_8$ in.)
Weight	4.5 kg (L: 2.1 kg, R: 2.4 kg) 9 lbs 15 oz (L: 4 lbs 10 oz, R: 5 lbs 5 oz)
Speaker Cord	1.5 m ($59^1/_8$ in.)

• Design and specifications are subject to change without notice.

S/M Code No. 09–98A–299–1FE

ELECTRICAL MAIN PARTS LIST

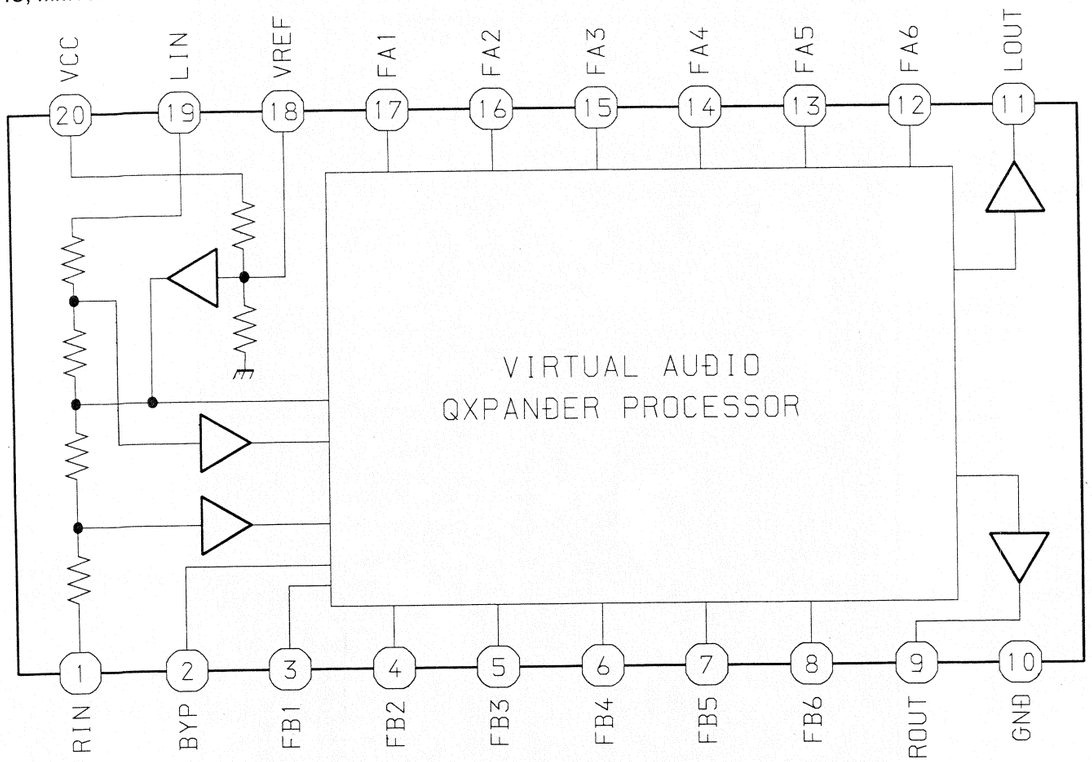
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-754-010		IC,BA4558N-DX
	87-001-596-010		IC,NJM4580L
	87-001-629-110		IC,LA4630
	87-A20-356-010		C-IC,MM1326AJBE
TRANSISTOR			
	89-318-155-080		TR,2SC1815 (0.4W)
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-933-080		ZENER,MTZJ10D
	86-SP2-646-010		151-540235,DIODE IN5402LT
MAIN C.B			
C1	87-018-131-080		CAP, CER 1000P-50V
C2	87-018-131-080		CAP, CER 1000P-50V
C3	87-018-131-080		CAP, CER 1000P-50V
C4	87-018-131-080		CAP, CER 1000P-50V
C5	87-010-402-080		CAP, ELECT 2.2-50V
C6	87-010-402-080		CAP, ELECT 2.2-50V
C7	87-018-209-080		CAP, CER 0.1-50V
C8	87-010-405-080		CAP, ELECT 10-50V
C25	87-010-404-080		CAP, ELECT 4.7-50V
C26	87-010-404-080		CAP, ELECT 4.7-50V
C27	87-010-248-080		CAP, ELECT 220-10V
C28	87-010-248-080		CAP, ELECT 220-10V
C31	87-010-545-080		CAP, ELECT 0.22-50V
C32	87-010-545-080		CAP, ELECT 0.22-50V
C33	87-010-404-080		CAP, ELECT 4.7-50V
C34	87-010-404-080		CAP, ELECT 4.7-50V
C35	87-010-235-080		CAP,E 470-16 SME
C36	87-010-235-080		CAP,E 470-16 SME
C45	87-010-384-080		CAP, ELECT 100-25V
C46	87-018-209-080		CAP, CER 0.1-50V
C47	87-010-246-080		CAP, ELECT 47-35V
C48	87-010-394-080		CAP ELECT220-35V
C51	87-010-396-080		CAP,E 470-35 SME
C52	87-010-393-080		CAP, ELECT 100-35V
C53	87-A10-641-090		CAP,E 4700-35 UTES
C54	87-018-209-080		CAP, CER 0.1-50V
C55	87-018-209-080		CAP, CER 0.1-50V
C56	87-018-209-080		CAP, CER 0.1-50V
C57	87-018-209-080		CAP, CER 0.1-50V
C58	87-018-202-080		CAP.CERAM.6800PF
C59	87-018-202-080		CAP.CERAM.6800PF
C60	87-010-401-080		CAP, ELECT 1-50V
C61	87-018-209-080		CAP, CER 0.1-50V
C62	87-010-405-080		CAP, ELECT 10-50V
C63	87-010-263-080		CAP, ELECT 100-10V
C64	87-018-131-080		CAP, CER 1000P-50V
C77	87-010-405-080		CAP, ELECT 10-50V
C78	87-010-405-080		CAP, ELECT 10-50V
CN1	87-099-543-010		CONN,10P TKC-M10P-B1
CN3	87-099-043-010		CONN 2P EH
CN7	87-099-043-010		CONN 2P EH
J1	85-SP3-620-010		JACK,PIN 2P
J2	87-YP5-607-010		JACK 3.5 ST W/SW HP
J3	87-YP5-619-010		JACK DIN 5P
PR2	87-A90-726-080		PROTECTOR,1.6A 491SERIES 60V
PR3	87-A90-726-080		PROTECTOR,1.6A 491SERIES 60V
R67	87-029-167-060		RES,FUSE 10-1/4W J
FRONT C.B			
C9	87-010-405-080		CAP, ELECT 10-50V
C10	87-010-405-080		CAP, ELECT 10-50V
C15	87-010-406-080		CAP, ELECT 22-50
C16	87-010-406-080		CAP, ELECT 22-50
C17	87-010-260-080		CAP, ELECT 47-25V
C18	87-018-209-080		CAP, CER 0.1-50V
C19	87-010-405-080		CAP, ELECT 10-50V
C20	87-010-405-080		CAP, ELECT 10-50V
C21	87-018-209-080		CAP, CER 0.1-50V
C24	87-010-260-080		CAP, ELECT 47-25V
C66	87-010-405-080		CAP, ELECT 10-50V
C67	87-010-405-080		CAP, ELECT 10-50V
C76	87-010-405-080		CAP, ELECT 10-50V
C79	87-018-209-080		CAP, CER 0.1-50V
C80	87-010-405-080		CAP, ELECT 10-50V
CN2	87-009-797-010		CONN,10P TKC-M X
D1	87-YP5-627-010		LED DIA3 GRN
S2	84-SP3-623-010		SW,PUSH 2-2-2
VR1	87-YP5-622-010		104-10KA-11001,VR RTRY 10KAX2
VR2	87-YP5-623-010		102-20KB-11001,VR RTRY 20KBX1H
PT-1 C.B			
⚠ PT1	87-YP5-611-110		PT,H
⚠ T1	82-304-743-010		TERMINAL, 1P
⚠ T2	82-304-743-010		TERMINAL, 1P
⚠ T3	82-304-743-010		TERMINAL, 1P
⚠ T4	82-304-743-010		TERMINAL, 1P
⚠ S3	85-SP3-619-010		SW,SL POWER
PT-2 C.B			
CN6	87-099-043-010		CONN 2P EH
⚠ F1	87-035-457-010		FUSE,3.15A 250V TW/C
⚠ FC1	87-033-213-080		CLAMP, FUSE
⚠ FC2	87-033-213-080		CLAMP, FUSE

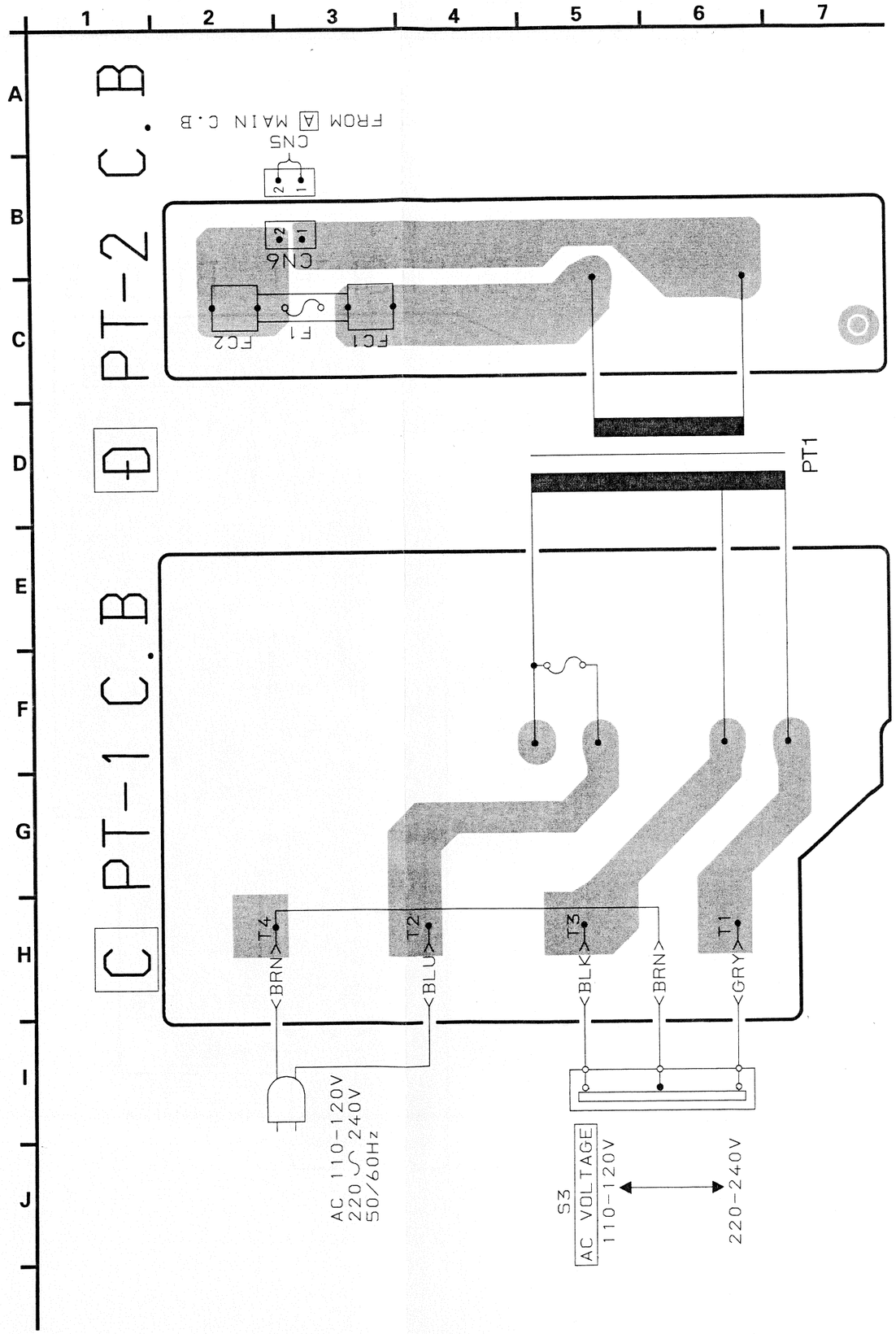
TRANSISTOR ILLUSTRATION

2SC1815

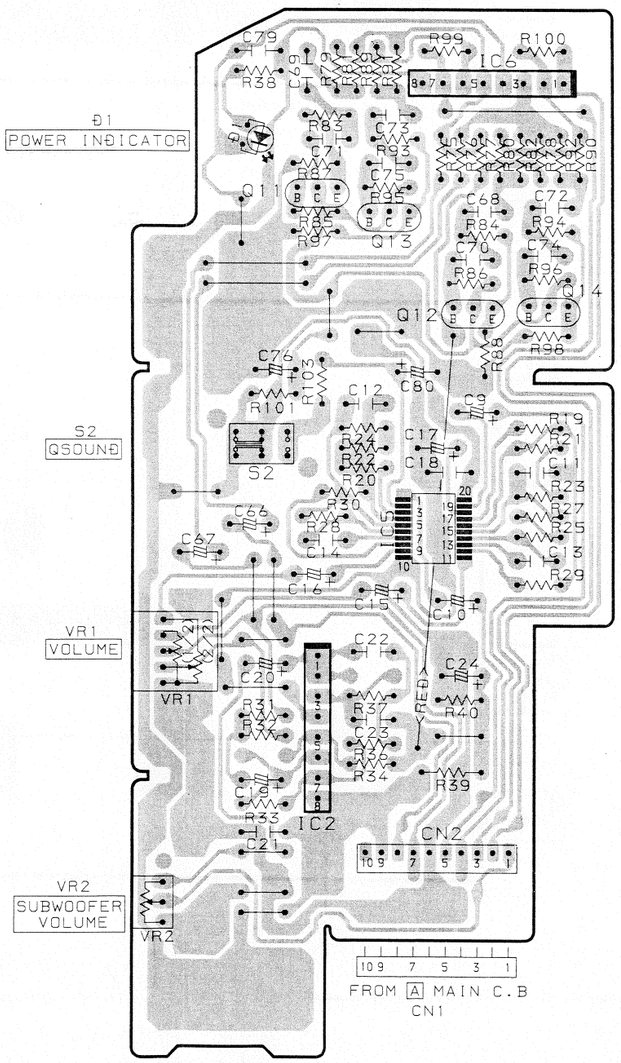
IC, MM1326AJBE



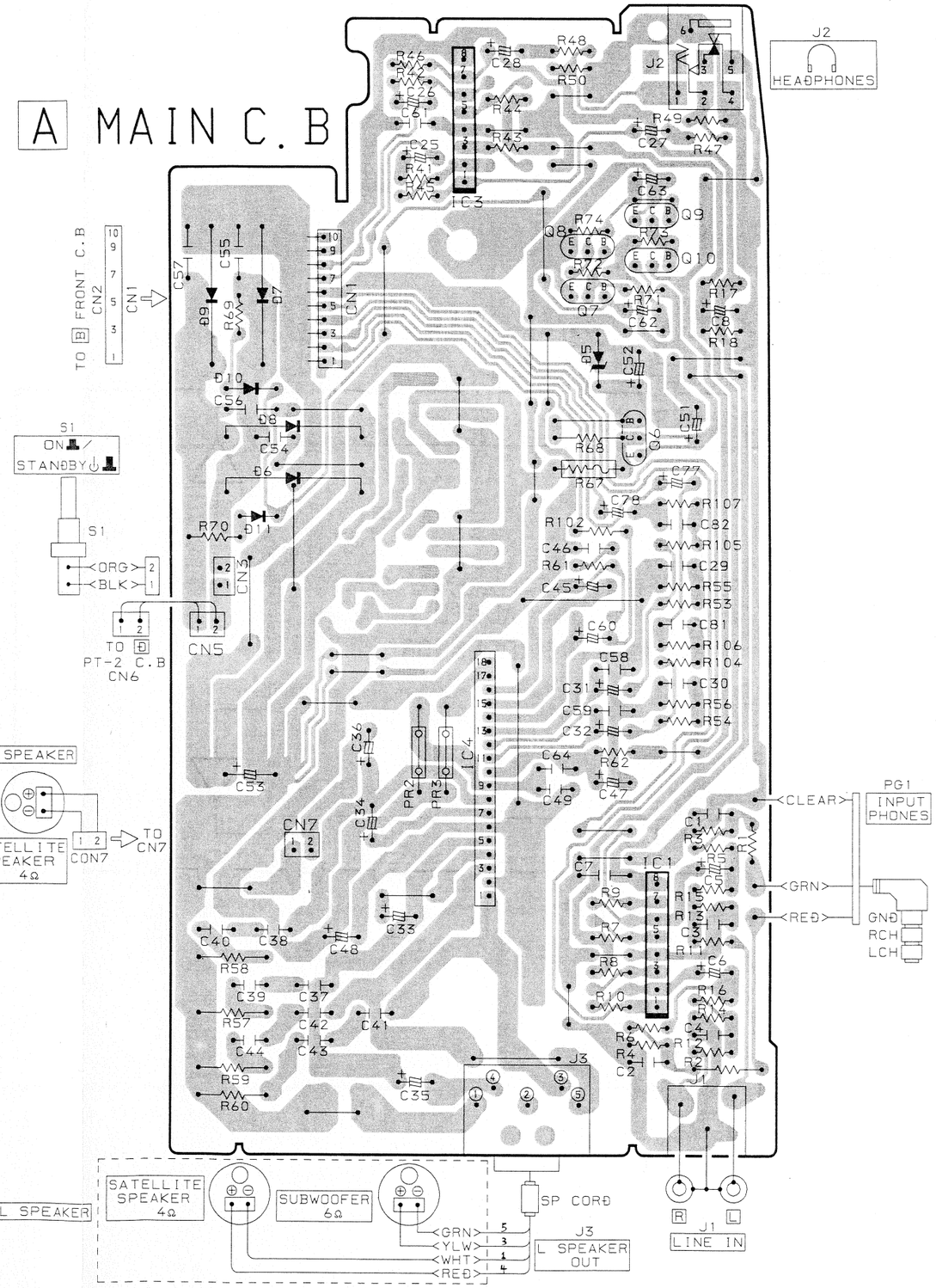
WIRING – 1 (PT)



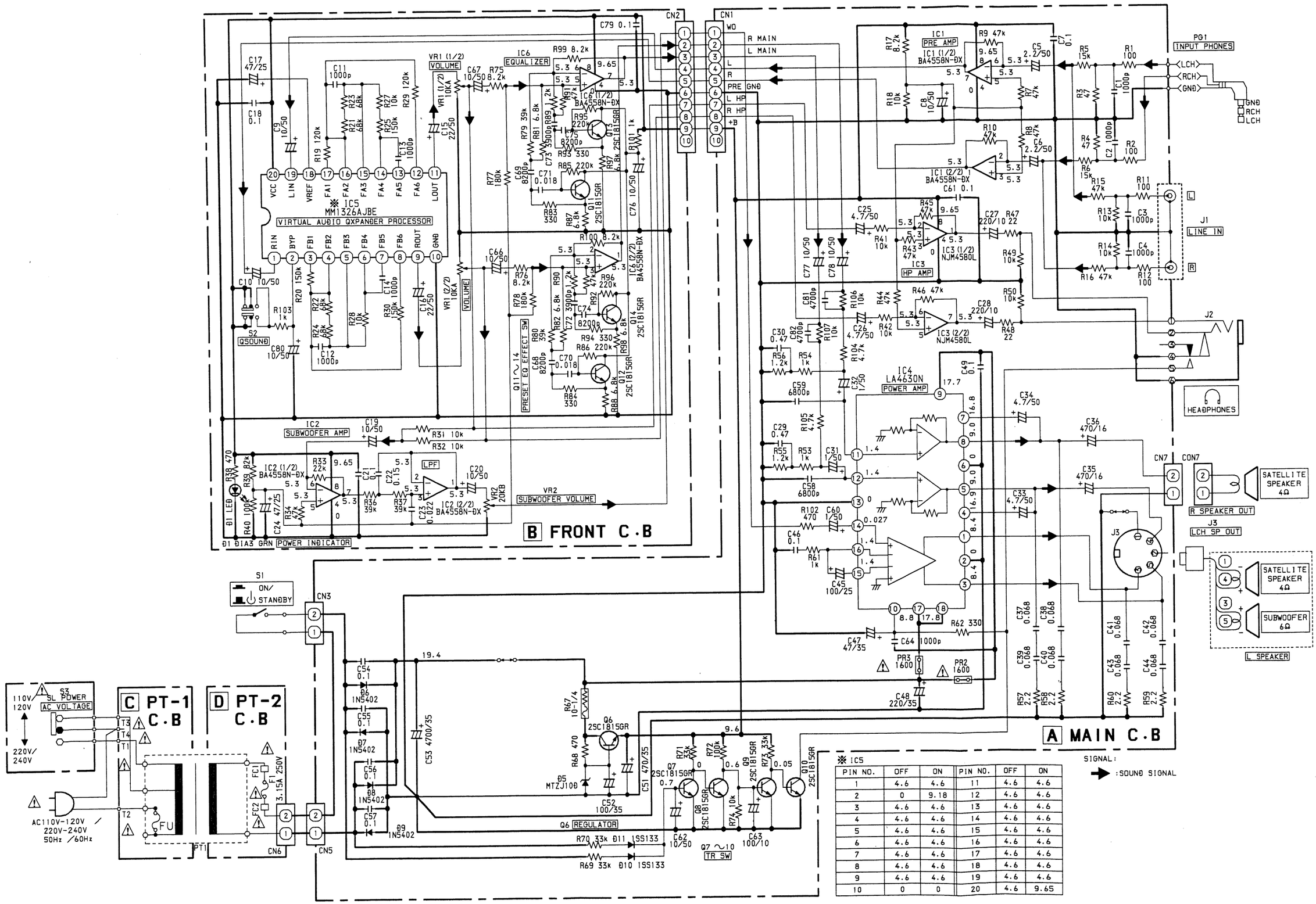
B FRONT C.B



A MAIN C.B



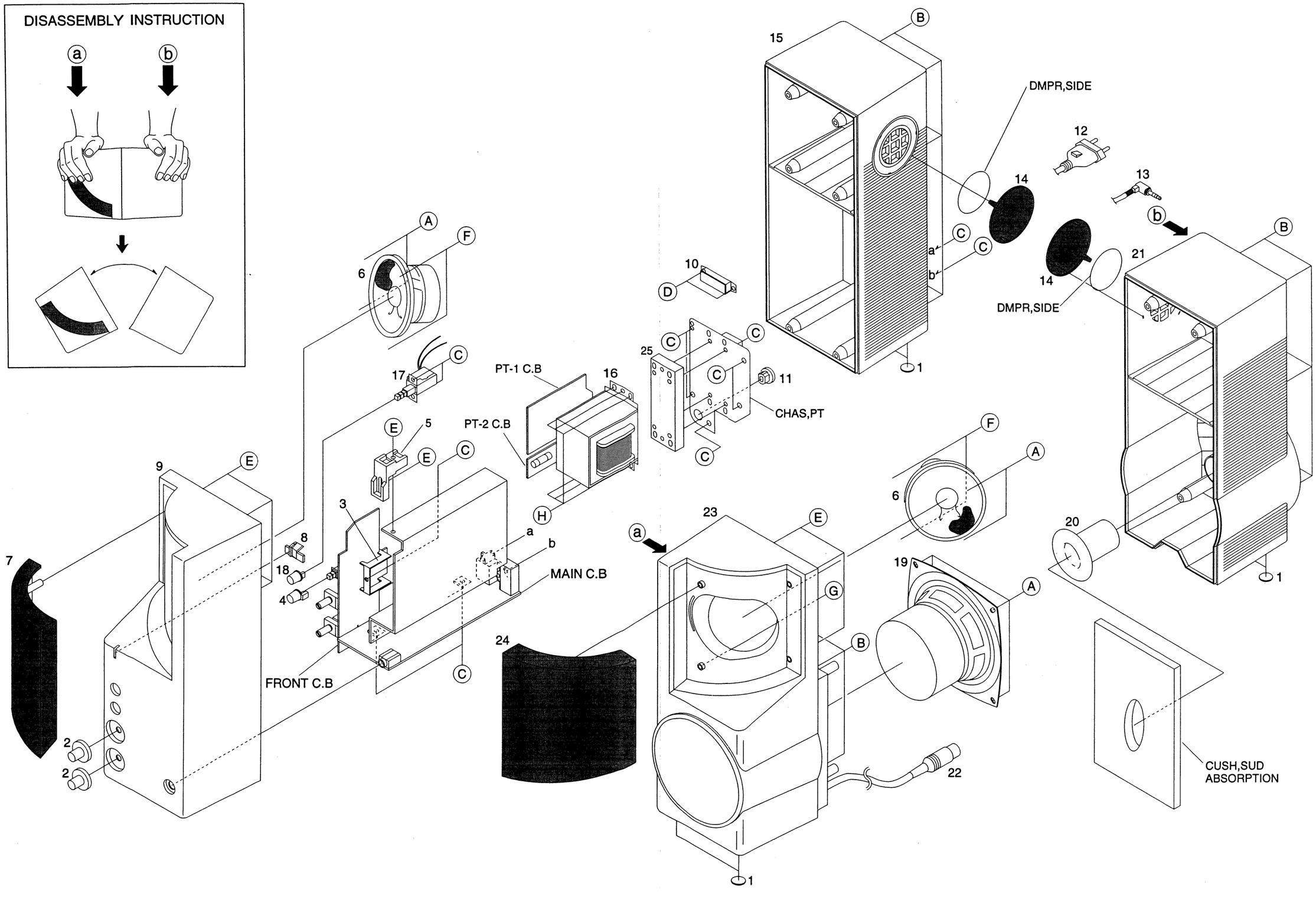
SCHEMATIC DIAGRAM



※ IC5

PIN NO.	OFF	ON	PIN NO.	OFF	ON
1	4.6	4.6	11	4.6	4.6
2	0	9.18	12	4.6	4.6
3	4.6	4.6	13	4.6	4.6
4	4.6	4.6	14	4.6	4.6
5	4.6	4.6	15	4.6	4.6
6	4.6	4.6	16	4.6	4.6
7	4.6	4.6	17	4.6	4.6
8	4.6	4.6	18	4.6	4.6
9	4.6	4.6	19	4.6	4.6
10	0	0	20	4.6	9.65

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YP5-208-010		FOOT,BOT
2	87-YP5-034-010		KNOB,RTRY H
3	87-YP5-209-010		HLDR,PWB
4	87-YP5-033-010		BTN,KNOB Q SOUND H
5	87-YP5-220-010		HLDR,HT
6	87-YP5-606-110		SPKR ST 77 4OHM
7	87-YP5-202-010		401-1RG7YP-5,FRAME R
8	87-YP5-008-110		WINDOW,LED
9	87-YP5-038-010		CABI,FRONT R H
⚠ 10	85-SP3-619-010		SW,SL POWER
11	86-SP2-637-010		BUSHING,AC U
⚠ 12	86-SP2-634-010		AC CORD,E
13	85-SP3-629-010		CORD,PLUG 3.5 ST B
14	87-YP5-037-010		GRILLE,SIDE H
15	87-YP5-039-110		CABI,REAR R H
⚠ 16	87-YP5-611-110		PT,H
17	87-YP5-626-010		SW,PUSH 1-1-1 SY16-52-3
18	87-YP5-032-010		BTN,KNOB POWER H
19	87-YP5-605-110		SPKR W 100 6OHM
20	87-YP5-235-010		RING,DUCT H
21	87-YP5-031-010		CABI,REAR L H
22	87-YP5-620-010		CORD,ASSY DIN
23	87-YP5-030-010		CABI,FRONT L H
24	87-YP5-203-010		401-1LG7YP-5,FRAME L
25	87-YP5-225-010		HLDR,TRANS
A	87-067-945-110		VFT2+3-12(F10)
B	87-067-822-010		BVT2+3-20 W/O SLOT
C	87-067-703-010		TAPPING SCREW, BVT2+3-10
D	87-741-074-410		UT2+2.6-8
E	87-067-581-010		TAPPING SCREW, BVT2+3-15
F	87-YP5-227-010		VFT2+3-18 W/O (F10)
G	87-067-873-010		BVT2+3-25 W/O SLOT
H	87-761-096-410		VFT2+3-10 GLD

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YP5-905-210		IB,ECA

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

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